(19) World Intellectual Property Organization International Bureau





(10) International Publication Number

WO 2006/023862 A1

(43) International Publication Date 2 March 2006 (02.03.2006)

(51) International Patent Classification: G02B 6/136 (2006.01) G02B 6/122 (2006.01) G02B 6/30 (2006.01)

(21) International Application Number:

PCT/US2005/029815

- (22) International Filing Date: 22 August 2005 (22.08.2005)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/603,843

23 August 2004 (23.08.2004)

- (71) Applicant (for all designated States except US): MOLEX INCORPORATED [US/US]; 2222 Wellington Court, Lisle, IL 60532 (US).
- (72) Inventors: CHOUDHURY, Masum; 795 Olesen Drive, Naperville, IL 60540 (US). STANCZYK, Thomas, R.; 5800 Oakwood Drive, Unit 5-E, Lisle, IL 60532 (US). RICHARDSON, Dean; 3112 Wilmette Avenue, Wilmette, IL 60091 (US). DONVAL, Ariela; 14 Efroni Street, 48550 Rosh Haayin (IL). ORON, Ram; 7a Shikmin Street, 74064 Nes Ziona (IL). ORON, Moshe; 26 Busel Street, 76404 Rehovot (IL).

(74) Agent: BOSE, Roml, N.; Molex Incorporated, 2222 Wellington Court, Lisle, IL 60532 (US).

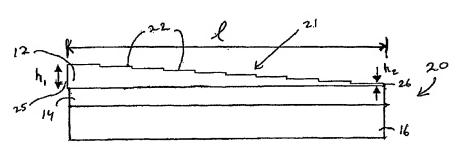
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

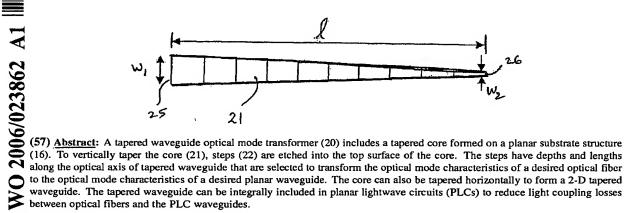
Published:

with international search report

[Continued on next page]

(54) Title: SYSTEM AND TAPERED WAVEGUIDE FOR IMPROVING LIGHT COUPLING EFFICIENCY BETWEEN OPTI-CAL FIBERS AND INTEGRATED PLANAR WAVEGUIDES AND METHOD OF MANUFACTURING SAME





between optical fibers and the PLC waveguides.



